NAPA RIVER SALT MARSH AND NAPA PLANT SITE RESTORATION PROJECTS BIENNIAL REPORT PRELIMINARY SUMMARY



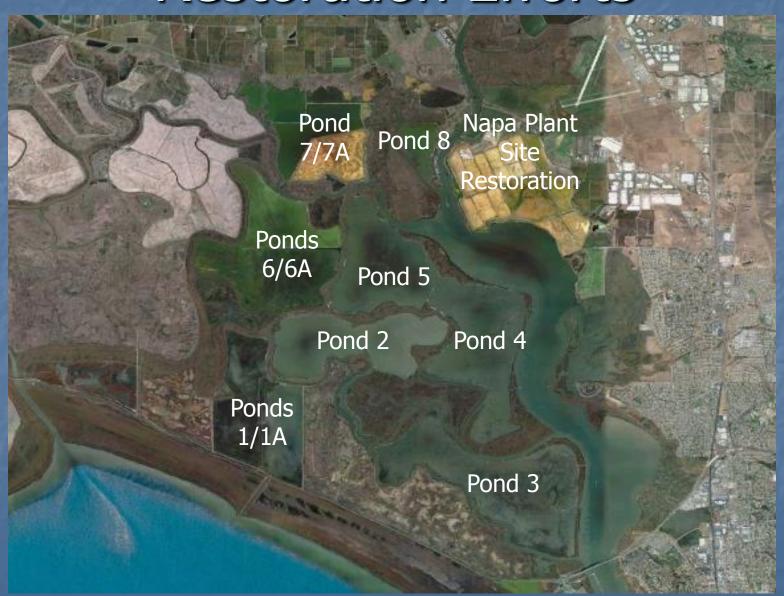
Karen Taylor, Environmental Scientist

Napa-Sonoma Marshes Wildlife Area

NSMRG MEETING

December 7, 2017

Napa-Sonoma Marshes Wildlife Area Restoration Efforts



Parameters We'll Touch on....

Rail Surveys

Water Quality

Sedimentation Plates and Erosion Pins



California Ridgway's Rail Surveys

Sufficient habitat has not yet developed

no post-restoration detections have been found in the ponds.



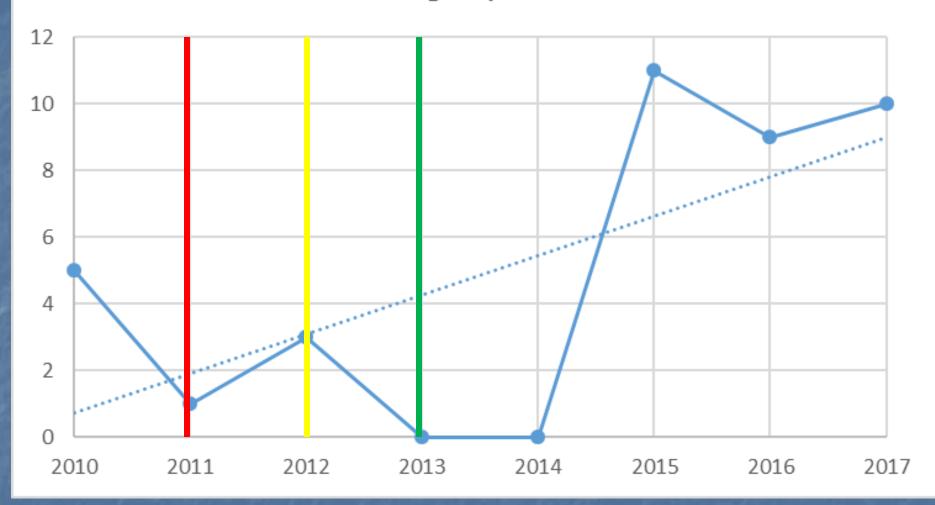
Ridgway's Rail Surveys





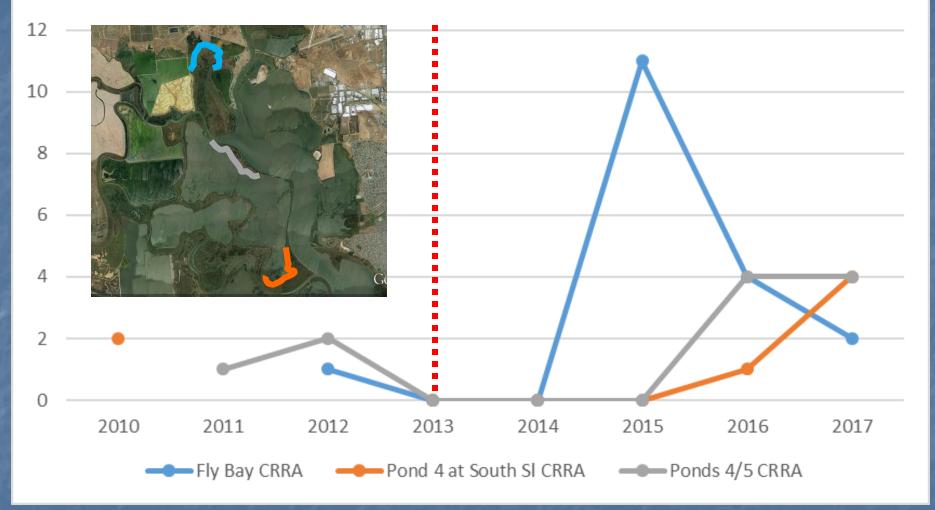


NSMWA Ca Ridgway's Rail Detections



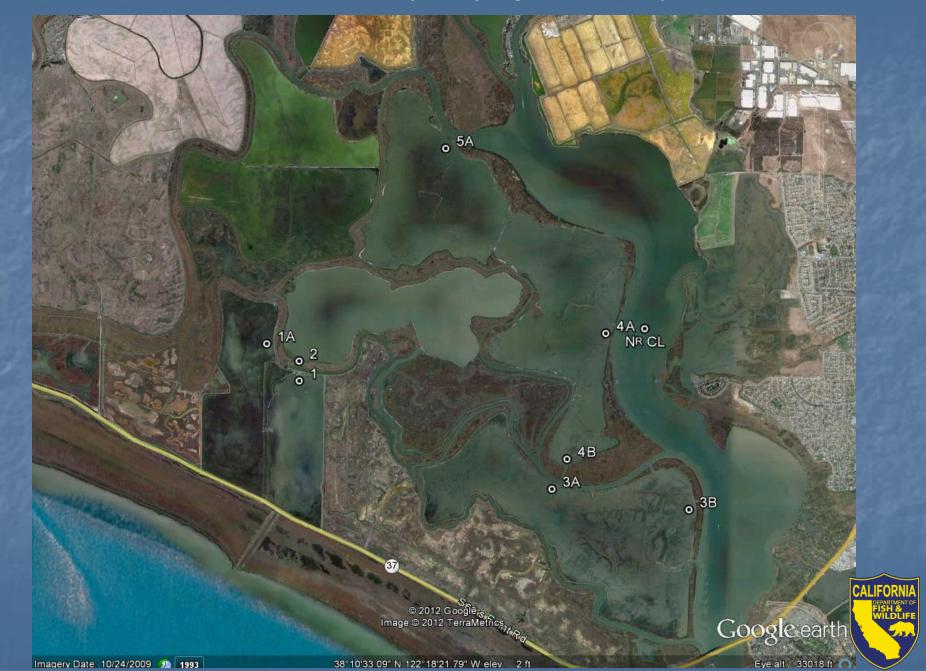


Ridgway's Rail Detection by Location

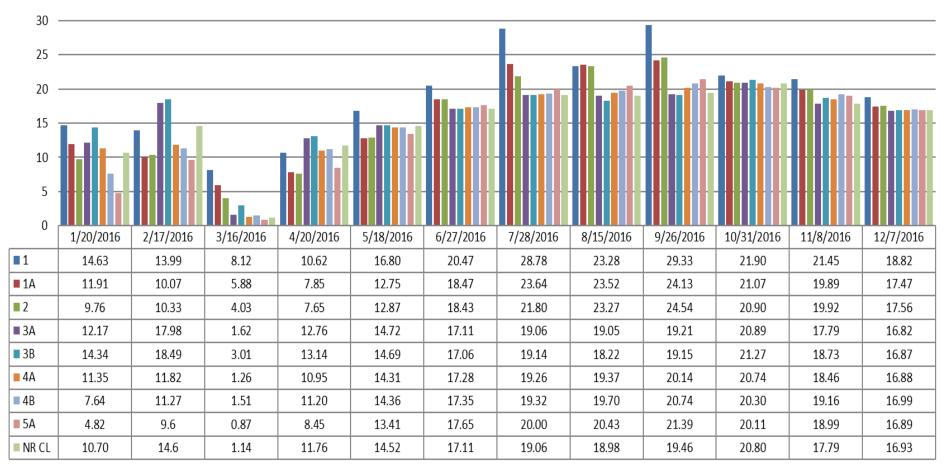




NSMR Water Quality Sampling Location Map



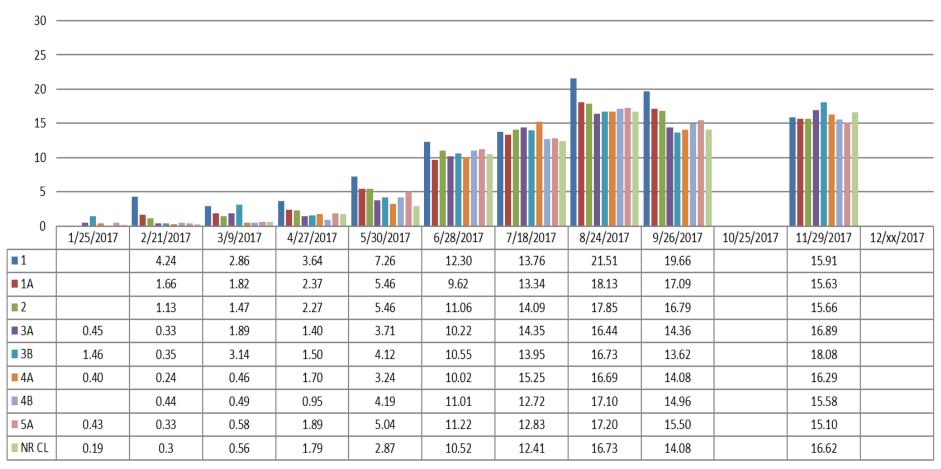
2016 Salinity (ppt) Ponds 1-5 with Napa River







2017 Salinity (ppt) Ponds 1-5 with Napa River







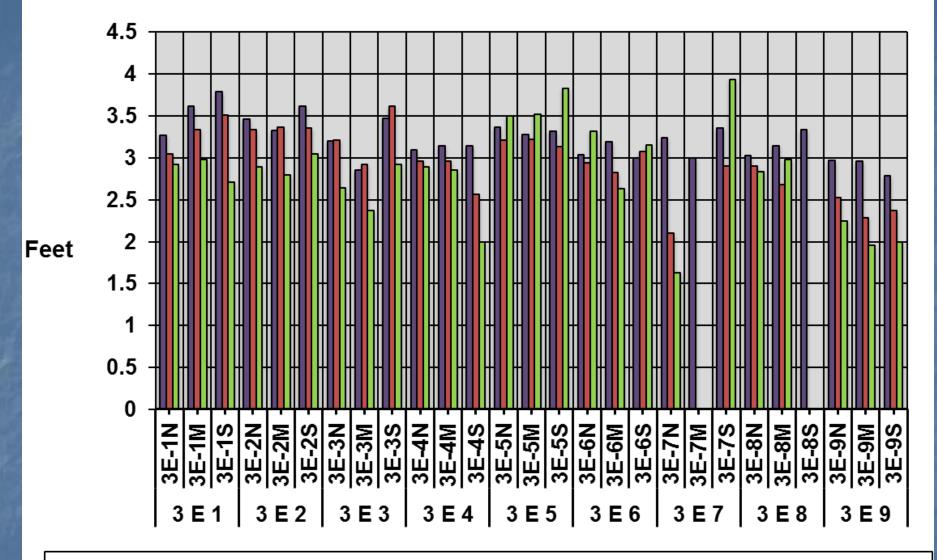
Napa Plant Site Restoration Sedimentation Plate Location Map





NPS Sedimentation Plates 2009-2017 300 250 200 150 100 50 CB-8 B-3 CB-2 Central Unit North Unit -50 -100 -150 ■ 2009 Placement Measurement (Base)(mm) ■ 2010 Placement Measurement (Base)(mm) ■ 2012 Measurement (mm) ■ 2013 Measurement (mm) 2014 Measurement (mm) 2015 Measurement (mm) ■ 2016 Measurement (mm) ■ 2017 Measurement (mm)

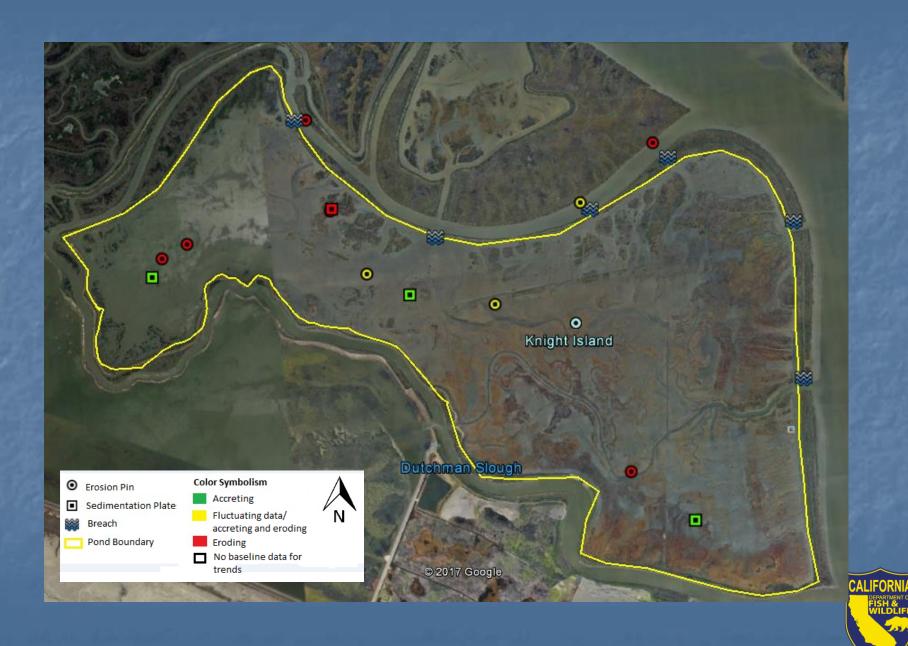
Pond 3



■2007 Measurement (ft) (Base) ■2013 Measurement (ft) ■2017 Measurement (ft)

CALIFORNIA

Pond 3 Sedimentation Plate and Erosion Pin Location Map

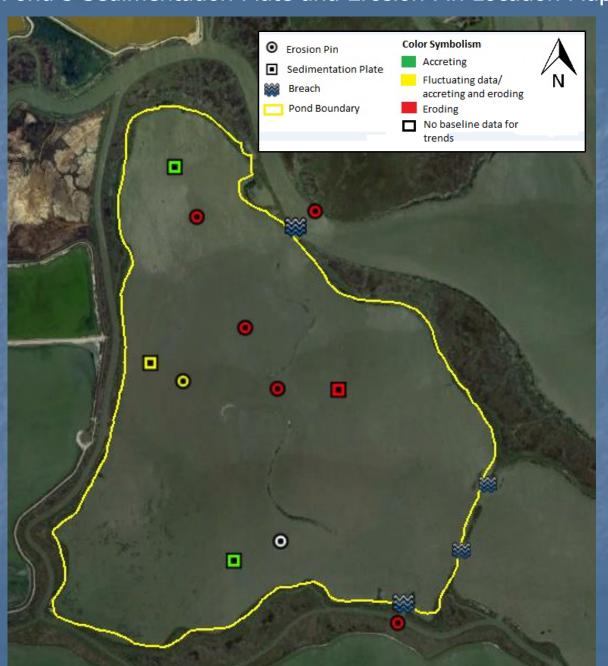


Pond 4 Sedimentation Plate and Erosion Pin Location Map



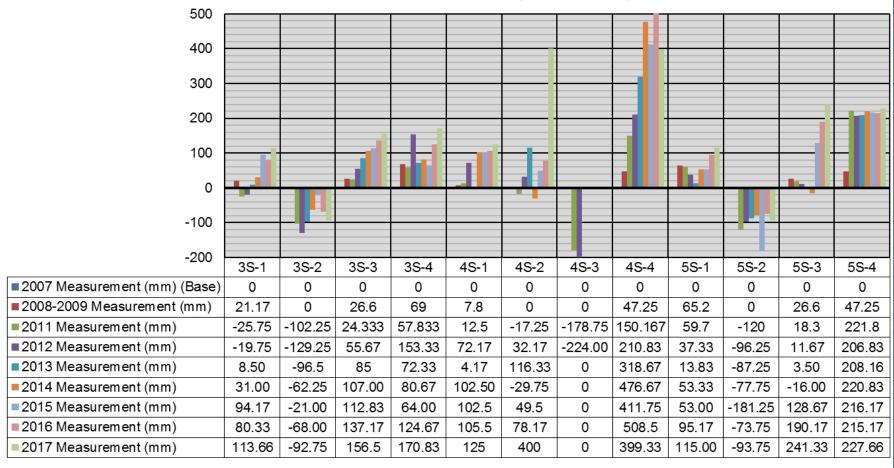


Pond 5 Sedimentation Plate and Erosion Pin Location Map





Sedimentation Plates for NSMWA (Ponds 3-5) 2007-2017



Note: 4S-3 was pulled in 2013 because it had fallen over due to excessive erosion. 4S-2 2017 measurement higher than table. Could not locate.









Hang in there.....

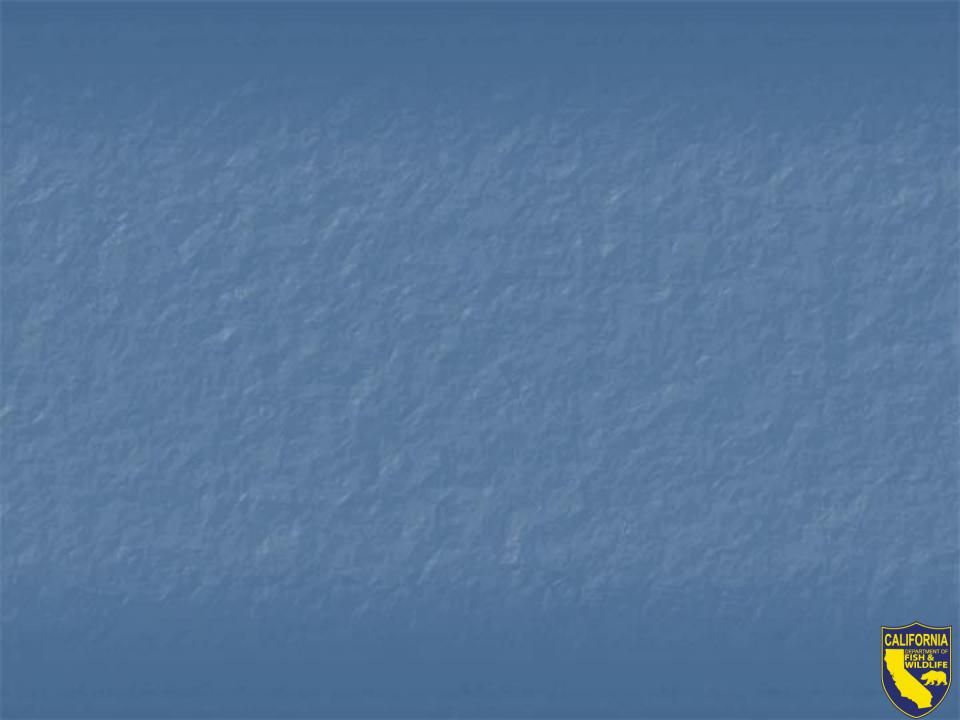


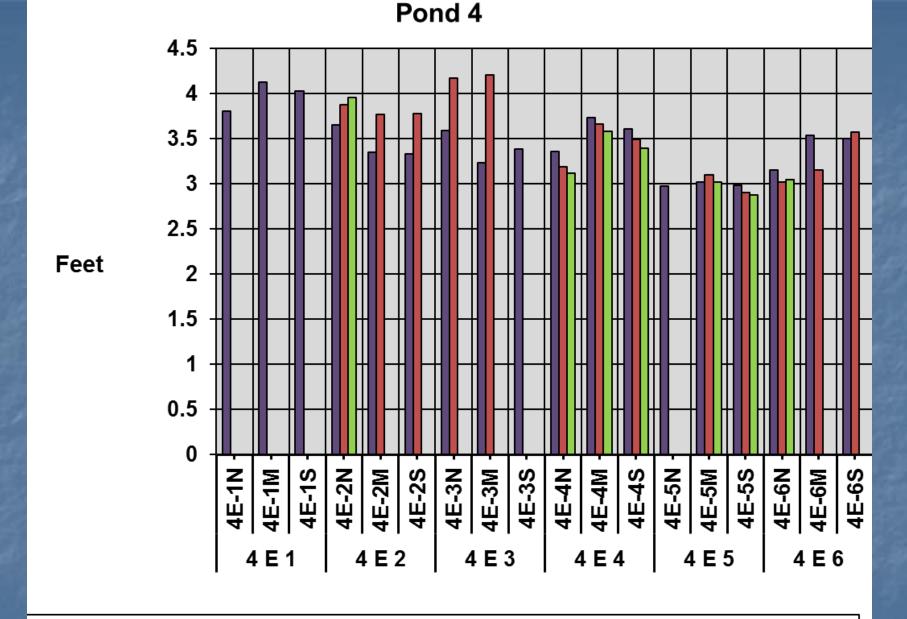
(Don't worry! Rescued Nov 27th by CDFW staff, Tom Huffman and Karen Taylor)

Expect Final 2017 Biennial Report in Spring 2018

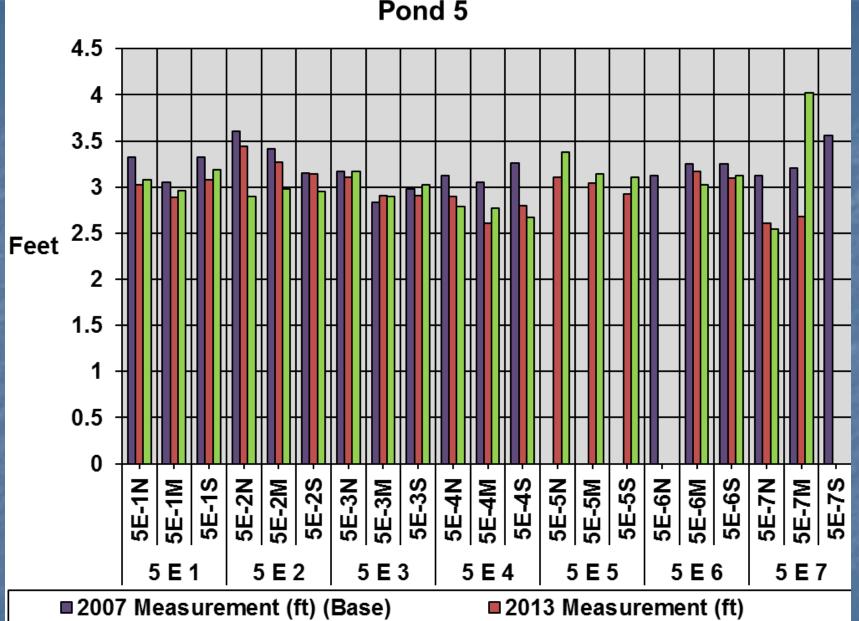








■2007 Measurement (ft) (Base) ■2013 Measurement (ft) ■2017 Measurement (ft)



■2017 Measurement (ft)

